

Enclosed please find three (3) sheets of formal drawings.

IN THE ABSTRACT:

Enclosed please find a copy of a new abstract.

IN THE CLAIMS:

Please cancel claim 34 without prejudice. Please amend claims 22, 27, 30, 32, 35, 36 and 38-40 as follows:

22. (Amended) A fluorescence correlation spectroscopy module
arrayed in an optical connection of a microscope comprising:

a support body;

a coupling connection disposed within said support body;

a pinhole array comprising one pinhole disposed within said support body;

a detector;

a lens array positioned between said pinhole and said detector, for focusing an emission light passing through said pinhole on said detector; and

C1
C2 a fiber optic waveguide disposed within said support body for coupling in a stimulating light.

C2 27. (Amended) The module as in claim 22, further comprising a filter array and a dichroic beam splitter both disposed within a beam path before a beam within said beam path is coupled into the microscope.

C3 30. (Amended) The module as in claim 29, wherein said at least one optical unit comprises a dichroic beam splitter.

C4 32. (Amended) The module as in claim 29, further comprising at least one receptacle holder, wherein said at least one optical unit is removably insertable within a receptacle holder.

C5 35. (Amended) The module as in claim 22, further comprising a receptacle holder disposed within said support body and wherein said receptacle holder comprises shaped surfaces, and complementary

shaped surfaces arrayed and fixed in a beam path in said support body.

C5
C6
36. (Amended) The module as in claim 22, wherein said support body is made in one piece from a metallic material and has a connection flange for attaching said support body to the connection of the microscope.

C6
38. (Amended) The module as in claim 37, further comprising at least two frequency selective filter devices disposed within said receptacle holders.

39. (Amended) The module as in claim 22, further comprising a collimator disposed within said support body and which is tuned to a numerical aperture of said fiber optic waveguide.

40. (Amended) The module as in claim 39, further comprising frequency selective devices which choose different spectrum ranges of a set of emission wavelengths.

Please add the following claims 42 and 43:

--42. A fluorescence correlation spectroscopy module arrayed in an optical connection of a microscope comprising:

a support body;

a coupling connection disposed within said support body;

C) a pinhole array comprising one pinhole disposed within said support body;

a fiber optic waveguide disposed within said support body for coupling in simulated light; and

a beam splitter for confocal division of an incoming beam path and an outgoing beam path, whereby outgoing and incoming light is passing said beam splitter or reflected by said beam splitter while being focused.

43. A fluorescence correlation spectroscopy module arrayed in an optical connection of a microscope comprising:

a support body;